

REMARKS

The Examiner rejected claims 1-17 under 35 U.S.C. §103 as unpatentable over Buechler with Kurz.

Both independent claims 1 and 10 distinguish at least by reciting a plurality of engraving heads and each of the plurality of engraving heads being connected to be individually cooled by its own respective cooling unit. Buechler discloses only a single engraving head and never mentions multiple engraving heads. The single engraving head is cooled by a coolant liquid entering at inlet 60 and exiting at outlet 62 in Figs. 2 and 6, or by entering inlet 164 and exiting at outlet 166 in Fig. 12. Since only a single engraving head is disclosed, the reference cannot suggest claims 1 or 10 reciting a plurality of engraving heads. Buechler nowhere suggests a plurality of cooling units.

The Examiner cited Kurz as a secondary reference. However, Kurz is not directed to an engraving system as recited in claims 1 and 10, but rather to an offset press. It is therefore not obvious even to consult Kurz as a secondary reference, since it is a completely different field. In the field of offset presses, cooling power is typically in the range of 4000 to 40,000 watts, whereas cooling for an engraving head is in the range of 30 to 100 watts. This is so significantly different that one skilled in the art would not consult Kurz in combination of Buechler.

It is also significant that in Kurz rollers 30 and 44 are cooled by respective coolants. However, these two respective coolants are relating to a single printing plate 32 of a plate cylinder 34. Thus Kurz teaches away from the invention by having two coolants cooling a single item. Therefore, even if Kurz was combined with Buechler, it would teach two coolants for cooling only a single engraving head. Kurz in no way could ever teach anything about cooling a plurality of engraving

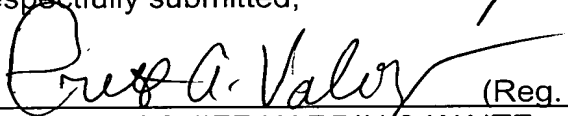
heads where each of the plurality of engraving heads is connected to be individually cooled by its own respective cooling unit.

Since neither reference teaches a plurality of engraving heads, the combination cannot suggest independent cooling of each one of a plurality of engraving heads with its own respective cooling unit. Since in Kurz the two coolants are cooling rollers associated with a single printing plate 32, there is no hint that each coolant in Kurz would be cooling a separate engraving head.

Dependent claims 2-9 and 11-17 are allowable at least for the reasons that claims 1 and 10 are allowable and also by reciting additional features which, in combination to respective claims 1 and 10, would not be suggested.

Allowance of case is respectfully requested.

Respectfully submitted,

 (Reg. #27,841)

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